MATERIAL SAFETY DATA SHEET

(CONFORMS TO THE REQUIREMENTS OF) 29CFR 1910.1200

BUTANE

DATE OF PREPARATION: JULY 27, 1994 PAGE 1 OF 5 SECTION I **MANUFACTURER'S NAME:** COOPER HAND TOOLS/TURNER STREET ADDRESS: 821 PARK AVENUE SYCAMORE, ILLINOIS 60178 **EMERGENCY RESPONSE TELEPHONE NO. (CHEM TREC):** 800-424-9300 (815) 895-4545 TELEPHONE NUMBER FOR INFORMATION: SECTION II - IDENTITY MANUFACTURER'S IDENTIFICATION NUMBERS: WB1 **Butane-Liquefied Petroleum Gas** IDENTITY (As Used On Label and List): SYNONYMS: LP Gas, Isobutane, A-31 CHEMICAL NAME: BUTANE CHEMICAL FAMILY: HYDROCARBON, LP GAS DEGREE OF HAZARD CHEMICAL FORMULA: C, H., 1 HEALTH D.O.T. HAZARD CLASS: FLAMMABLE GAS FIRE 4 D.O.T. IDENTIFICATION NUMBER: Liquefied Petroleum Gas UN1075 REACTIVITY û or Butane UN1011 IATA IDENTIFICATION NUMBER: UN1011 SECTION III - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION Other Limits **Hazardous Components** PEL/TLV SOURCE Recommended % (percent) CAS# **OSHA PEL**

800PPM_ACGIH



ISOBUTANE

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NE

100%

SECTION IV - PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT:

11°F - (12°C)

SPECIFIC GRAVITY (H₂O = 1): 0.56

PRESSURE IN CAN AT 70°F: APPROXIMATELY 31 PSIG

PERCENT VOLATILE BY WEIGHT:

100%

VAPOR DENSITY (AIR = 1):

2.0

EVAPORATION RATE (BUACE = 1): FLASH EVAPORATES

SOLUBILITY IN WATER: (

NEGLIGIBLE

APPEARANCE AND ODOR:

LIQUIFIED COMPRESSED GAS, FLASH EVAPORATES AT ROOM TEMPERATURE WHEN RELEASED FROM CAN. COLORLESS GAS WITH STRONG MERCAPTON (SKUNK-LIKE) ODOR DUE TO STENCHING AGENT ADDED TO GAS FOR LEAK

DETECTION PURPOSES.

SECTION V - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT:

-LESS THAN -100°F (- 79°C) ESTIMATED

FLAMMABLE LIMITS:

% BY VOLUME IN AIR LEL: [1.8] UEL: [8.4]

EXTINGUISHING MEDIA:

DRY CHEMICAL, FOAM OR CARBON DIOXIDE (CO,)

SPECIAL FIRE FIGHTING PROCEDURES:

AVOID POSSIBLE ACCUMULATIONS OF VAPORS AT FLOOR LEVEL, AS VAPOR IS HEAVIER THAN AIR, SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING SHOULD BE WORN IN

FIGHTING FIRES INVOLVING CHEMICALS.

THIS PRODUCT IS EXTREMELY FLAMMABLE AT ALL TIMES. KEEP AWAY FROM ANY SOURCES OF INADVERTANT IGNITION, IN

CLUDING HEAT, FIRE, SPARKS, OR FLAME.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

AVOID POSSIBLE BURSTING OF AEROSOL CAN. DO NOT STORE

WHERE TEMPERATURE MAY EXCEED 120°F. DO NOT PUNCTURE

OR INCINERATE.

SECTION VI - REACTIVITY DATA

STABILITY:

Unstable [] Conditions to avoid:

HEAT, SPARKS, FLAMES, STRONG OXIDIZERS

Stable

INCOMPATIBILITY (Material to Avoid):

CHLORINE AND OTHER STRONG OXIDIZERS

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: CARBON MONOXIDE, OTHER CARBON OXIDES

HAZARDOUS POLYMERIZATION:

May Occur Will Not Occur

[XX]

SECTION VII - HEALTH AND HAZARD DATA

SUGGESTED EXPOSURE GUIDELINE 800 PPM

PRIMARY ROUTE OF EXPOSURE:

INHALATION, SKIN CONTACT

INHALATION: DIZZINESS, DISORIENTATION, HEADACHE, ANES-

THESIA.

SKIN CONTACT: VAPORS ARE NOT IRRITATING. FREEZE BURNS OR FROSTBITE POSSIBLE IF SKIN IS IN PROLONGED CONTACT WITH

VAPORIZING LIQUID.

EYE CONTACT: SAME AS SKIN CONTACT.

CARCINOGENICITY: NONE OF THE COMPONENTS IN THIS MATE-RIAL ARE LISTED BY IARC, NTP, OSHA, OR ACGIH AS A CARCINO-

GEN.

EMERGENCY AND FIRST AID PROCEDURES:

INHALATION:

Remove to fresh air.. If breathing ceases, administer artificial respiration followed by

oxygen. Seek medical attention.

SKIN CONTACT:

Wash with soap and water. Remove soaked clothing to avoid prolonged skin contact.

EYE CONTACT:

Immediately flush eyes with running water for at least 15 minutes. If irritation develops,

seek medical attention.

INGESTION:

NA, product is gaseous at normal temperature and pressure.

SUBCHRONIC & CHRONIC

EFFECTS OF OVEREXPOSURE: Ames test exhibited negative results. Human volunteers exposed repeatedly to hydrocarbon mixture gases at concentrations ranging from 250 to 1000 ppm exhibited no cardiac

or pulmonary function abnormalities.

SECTION VIII - PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

PROTECT FROM ANY IGNITION SOURCE, KEEP AWAY FROM HEAT, FIRE, SPARKS, OR FLAME, VENTILATE AREA WELL. AVOID ACCUMULATION OF VAPOR AT LOW LEVELS.

WASTE DISPOSAL METHOD:

DISPOSE OF IN ACCPRDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS, DO NOT PUNC-TURE OR INCINERATE.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

DO NOT STORE WHERE TEMPERATURE MAY EXCEED 120°F. STORE AWAY FROM FIRE, SPARKS, OR FLAME, STORE IN SUITABLE AREA FOR HAZARDOUS MATERIALS STORAGE.

D.O.T. SHIPPING CLASSIFICATION:

LIQUIFIED PETROLEUM GAS, 2.1

HAZZARD CLASS:

FLAMMABLE GAS

ID NUMBER:

UN1075

LABEL REQUIRED:

FLAMMABLE GAS

SPECIAL PRECAUTIONS:

PRECAUTIONS FOR USAGE

DO NOT USE NEAR HEAT, FIRE, FLAME, OR SPARKS. AVOID EXCESSIVE BREATHING OF VAPOR. DO NO SPRAY IN DIRECTION OF BODY, USE ONLY IN ACCORDANCE WITH DIRECTIONS.

SECTION IX

RESPIRATION PROTECTION: IF TLV IS EXCEEDED WEAR NIOSH-APPROVED SELF-CONTAINED BREATHING

DEVICE OR RESPIRATOR.

VENTILATION:

MUST BE ADEQUATE TO MAINTAIN VAPORS AT LESS THAN 800 PPM, PARTICULARLY

FLOOR LEVEL AS VAPORS ARE HEAVIER THAN AIR

PROTECTIVE GLOVES:

NONE NEEDED FOR NORMAL USE. SOLVENT-RESISTANT RUBBER TYPE RECOM-

MENDED IF PROLONGED EXPOSURE EXPECTED.

EYE PROTECTION:

SAFETY GLASSES OR GOGGLES RECOMMENDED.



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